INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011807

A. CLASSIFICATION OF SUBJECT MATTER			
Int.C	1 H05B33/12, H05B33/14, H05B	33/22	
According to I	nternational Patent Classification (IPC) or to both nati	onal classification and IPC	
B. FIELDS SE	BARCHED		
Minimum documentation searched (classification system followed by classification symbols)			
Inc.Ci	Н05В33/00-33/28		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Torrola Koho 1922-1996 Jitsuyo Shinan Torrola Koho			
l orrana	7 SILILIAN KONO 1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
		Toroku Jitsuyo Shinan Koho	1994-2005
Electronic data	base consulted during the international search (name o	of data base and, where practicable, search t	erms used)
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X A	JP 10-3990 A (Idemitsu Kosa	an Co., Ltd.),	1-5,7-8
A	06 January, 1998 (06.01.98), Par. Nos. [0005] to [0007],	[0012] to [0018]	6
	Fig. 1	[0012] [0 [0018];	
	(Family: none)	i	
Y	JP 2000-58264 A (Denso Corp		•
A	25 February, 2000 (25.02.00)	· · · ·	1-5,7 - 8 6
	Par. Nos. [0054] to [0057]		•
	(Family: none)		
Y	JP 8-78163 A (Chemipro Kase	i Kaisha. Ltd.)	2-5,7-8
	22 March, 1996 (22.03.96).		2 3,7 0
	Par. Nos. [0010] to [0013]; (Family: none)	Fig. 2	
	(10110)		
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Front has also			
Further documents are listed in the continuation of Box C.		See patent family annex.	
'A" document de	cories of cited documents: Fining the general state of the art which is not considered	"T" later document published after the inter	national filing date or priority
to be of particular relevance		date and not in conflict with the applicat the principle or theory underlying the in-	vention
filing date	ation or patent but published on or after the international	"X" document of particular relevance; the cla considered novel or cannot be conside	nimed invention cannot be
L" document will cited to estable	hich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other	step when the document is taken alone	
special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"Y" document of particular relevance; the cla considered to involve an inventive st	en when the document is
		combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
19 January, 2005 (19.01.05)		Date of mailing of the international search 01 February, 2005 (report
			2.02.03)
lame and mailing address of the ISA/		Authorized officer	
Japanese Patent Office			
Pacsimile No. Telephone No.			
rm PCT/ISA/210	(second sheet) (January 2004)		